# SAFETY DATA SHEET



#### according to 29 CFR 1910.1200 and ANSI standard Z400.1-2010

Urethane 90 SF Hardener

### **Section 1. Identification**

GHS product identifier	: Urethane 90 SF Hardener
Product code	: 105192

#### Relevant identified uses of the substance or mixture and uses advised against

Cyanate and isocyanate.-Hardener for resins. Polyurethane liquid.

Supplier's details	: WEICON Canada Inc. 20 Steckle Place, Unit 20 Kitchener, Ontario N2E 2C3, CA www.weicon.ca E-mail: info@weicon.ca Telephone: +1-519-896-5252 Telefax: +1-519-896-5254
e-mail address of person responsible for this SDS	: msds@weicon.de
Emergency telephone number	: +1 202 464 2554 / TRANSPORT EMERGENCY CONTACT - USA (24h): Tel: +1 202 464 2554

### Section 2. Hazards identification

OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	: ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A RESPIRATORY SENSITIZATION - Category 1 SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

Hazard pictograms



Signal word	:	Danger	
Hazard statements	:	<ul> <li>H315 - Causes skin irritation.</li> <li>H317 - May cause an allergic skin reaction.</li> <li>H319 - Causes serious eye irritation.</li> <li>H332 - Harmful if inhaled.</li> <li>H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.</li> <li>H335 - May cause respiratory irritation.</li> <li>H351 - Suspected of causing cancer.</li> <li>H373 - May cause damage to organs through prolonged or repeated exposure.</li> </ul>	
Precautionary statements			
Prevention	:	P280 - Wear protective gloves, protective clothing and eye or face protection. P271 - Use only outdoors or in a well-ventilated area. P260 - Do not breathe vapor.	

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## Section 2. Hazards identification

Response	<ul> <li>P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.</li> <li>P342 + P311 - If experiencing respiratory symptoms: Call a POISON CENTER or doctor.</li> </ul>
Storage	: Not applicable.
Disposal	: P501 - Dispose of waste according to applicable legislation.
Hazards not otherwise classified	: None known.

### Section 3. Composition/information on ingredients

: Mixture

Ingredient name	%	CAS number
Isocyanic acid, polymethylenepolyphenylene ester	≥75 - ≤90	9016-87-9

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

### Section 4. First aid measures

#### Description of necessary first aid measures

Eye contact	<ul> <li>Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.</li> </ul>
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. In the event of any complaints or symptoms, avoid further exposure.
Skin contact	: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

#### Most important symptoms/effects, acute and delayed

Potential acute health effects		
Eye contact	: Causes serious eye irritation.	
Inhalation	Harmful if inhaled. May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.	
Skin contact	Causes skin irritation. May cause an allergic skin reaction.	
Ingestion	: No known significant effects or critical hazards.	
Over-exposure signs/symptoms		

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# Section 4. First aid measures

Eye contact: Adverse symptoms may include the following: pain or irritation watering rednessInhalation: Adverse symptoms may include the following: respiratory tract irritation coughing wheezing and breathing difficulties asthmaSkin contact: Adverse symptoms may include the following: respiratory tract irritation coughing wheezing and breathing difficulties asthmaSkin contact: Adverse symptoms may include the following: irritation rednessIngestion: Adverse symptoms may include the following: irritation rednessIngestion: No specific data.Indication of immediate medical attention and special treatment needed, if necessary The exposed person may need to be kept under medical surveillance for 48 hours.Specific treatments: No specific treatment.Protection of first-aiders: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.		
respiratory tract irritation coughing wheezing and breathing difficulties asthmaSkin contact: Adverse symptoms may include the following: irritation rednessIngestion: No specific data.Indication of immediate medical attention and special treatment needed. if necessaryNotes to physician: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.Specific treatments: No specific treatment.Protection of first-aiders: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water	Eye contact	pain or irritation watering
Ingestion: No specific data.Indication of immediate medical attention and special treatment needed, if necessaryNotes to physician: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.Specific treatments: No specific treatment.Protection of first-aiders: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to 	Inhalation	respiratory tract irritation coughing wheezing and breathing difficulties
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<ul> <li>Notes to physician</li> <li>In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.</li> <li>Specific treatments</li> <li>No specific treatment.</li> <li>No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water</li> </ul>	Ingestion	: No specific data.
<ul> <li>Specific treatments</li> <li>Protection of first-aiders</li> <li>The exposed person may need to be kept under medical surveillance for 48 hours.</li> <li>No specific treatment.</li> <li>No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water</li> </ul>	Indication of immediate med	<u>dical attention and special treatment needed, if necessary</u>
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suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water	Specific treatments	: No specific treatment.
	Protection of first-aiders	suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water

See toxicological information (Section 11)

### Section 5. Fire-fighting measures

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### Section 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

For non-emergency	: No action shall be taken involving any personal risk or without suitable training.
personnel	Evacuate surrounding areas. Keep unnecessary and unprotected personnel from
	entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist.
	Provide adequate ventilation. Wear appropriate respirator when ventilation is
	inadequate. Put on appropriate personal protective equipment.

### Section 6. Accidental release measures

For emergency responders	:	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for containment and cleaning up	:	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Small spill	:	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

# Section 7. Handling and storage

#### Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems or asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

### Section 8. Exposure controls/personal protection

#### **Control parameters**

#### **Occupational exposure limits**

Ingredient name	Exposure limits		
Isocyanic acid, polymethylenepolyphenylene ester	None.		

Appropriate engineering controls	other engi	vith adequate ventilation. neering controls to keep w nded or statutory limits.					
Environmental exposure controls	they comp cases, fun	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.					
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# Section 8. Exposure controls/personal protection

#### Individual protection measures

Hygiene measures		Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	;	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
Skin protection		
Hand protection		Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. Recommended : ; Viton®, Butyl rubber gloves.
Body protection		Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection		Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	; 	Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. Recommended : inorganic gases/vapors filter (Type B)

# Section 9. Physical and chemical properties

A	
<u>Appearance</u>	
Physical state	: Liquid.
Color	: Brown.
Odor	: Strong. Disagreeable and choking.
Odor threshold	: Not available.
рН	: 5 to 7
Melting point/freezing point	: 41°C (105.8°F)
Boiling point, initial boiling point, and boiling range	: >300°C (>572°F)
Flash point	: Closed cup: >200°C (>392°F)
Fire point	: >500°C (>932°F)
Evaporation rate	: Not available.
Flammability	: Not available.
Lower and upper explosion limit/flammability limit	: Not available.
Vapor pressure	: Not available.
Relative vapor density	: Not available.
Relative density	: Not available.
Density	: 1.24 g/cm³ [20°C (68°F)]
Solubility(ies)	:
Not available.	
Solubility in water	: Not available.

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# Section 9. Physical and chemical properties

Miscible with water	:	No.
Partition coefficient: n- octanol/water	:	Not applicable.
Auto-ignition temperature	:	Not applicable.
Decomposition temperature	:	Not available.
Viscosity	:	Dynamic: 31100 mPa⋅s (31100 cP)
Flow time (ISO 2431)	:	Not available.
Particle characteristics		
Median particle size	:	Not applicable.

# Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: No specific data.
Incompatible materials	: No specific data.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### Section 11. Toxicological information

#### Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Isocyanic acid, polymethylenepolyphenylene ester	LC50 Inhalation Dusts and mists	Rat	0.31 mg/l	4 hours
	LC50 Inhalation Vapor	Rat	490 mg/m³	4 hours
	LD50 Dermal	Rabbit	>9400 mg/kg	-
	LD50 Oral	Rat	49 g/kg	-

#### Acute toxicity estimates

Route	ATE value
Inhalation (vapors)	14.67 mg/l
Inhalation (dusts and mists)	2 mg/l

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Isocyanic acid, polymethylenepolyphenylene ester	Eyes - Mild irritant	Rabbit	-	100 mg	-

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### Sensitization

Not available.

# Section 11. Toxicological information

#### **Mutagenicity**

Not available.

#### **Carcinogenicity**

Not available.

#### **Classification**

Product/ingredient name	OSHA	IARC	NTP
Isocyanic acid, polymethylenepolyphenylene ester	-	3	-

#### Reproductive toxicity

Not available.

#### **Teratogenicity**

Not available.

#### Specific target organ toxicity (single exposure)

Name		Route of exposure	Target organs
Isocyanic acid, polymethylenepolyphenylene ester	Category 3		Respiratory tract irritation

#### Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
Isocyanic acid, polymethylenepolyphenylene ester	Category 2	-	-

#### Aspiration hazard

Not available.

#### Information on the likely : Not available. routes of exposure

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Potential acute nearth effects		
Eye contact	:	Causes serious eye irritation.
Inhalation	:	Harmful if inhaled. May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin contact	:	Causes skin irritation. May cause an allergic skin reaction.
Ingestion	:	No known significant effects or critical hazards.

#### Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	Adverse symptoms may include the following: respiratory tract irritation coughing wheezing and breathing difficulties asthma
Skin contact	Adverse symptoms may include the following: irritation redness
Ingestion	No specific data.

#### Delayed and immediate effects and also chronic effects from short and long term exposure

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### Section 11. Toxicological information

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<u>Short term exposure</u>	
Potential immediate effects	Not available.
Potential delayed effects	Not available.
Long term exposure	
Potential immediate effects	Not available.
Potential delayed effects	Not available.
Potential chronic health effe	<u>ts</u>
Not available.	
General	: May cause damage to organs through prolonged or repeated exposure. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	<ul> <li>Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.</li> </ul>
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: No known significant effects or critical hazards.
Developmental effects	: No known significant effects or critical hazards.
Fertility effects	: No known significant effects or critical hazards.

# Section 12. Ecological information

#### **Toxicity**

Not available.

#### Persistence and degradability

Not available.

#### **Bioaccumulative potential**

Not available.

#### Mobility in soil

Soil/water partition : Not available. coefficient (Koc)

Other adverse effects : No known significant effects or critical hazards.

### Section 13. Disposal considerations

Disposal methods :	The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
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# Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	IMDG	ΙΑΤΑ	
UN number	Not available.	Not available.	Not available.	Not available.	Not available.	
UN proper shipping name	Not available.	Not available.	Not available.	Not available.	Not available.	
Transport hazard class(es)	Not available.	Not available.	Not available.	Not available.	Not available.	
Packing group	-	-	-	-	-	
Environmental hazards	No.	No.	No.	No.	No.	

**Special precautions for user** : **Transport within user's premises**: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according : Not available. to IMO instruments

### Section 15. Regulatory information

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U.S. Federal regulations	: TSCA 8(a	) CDR Exempt/Partial ex	emption: Not detern	nined	
	TSCA 8(c	) calls for record of SAR	: Isocyanic acid, poly	methylenepolyphenylene	ester
Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)	: Not listed				
Clean Air Act Section 602 Class I Substances	: Not listed				
Clean Air Act Section 602 Class II Substances	: Not listed				
DEA List I Chemicals (Precursor Chemicals)	: Not listed				
DEA List II Chemicals (Essential Chemicals)	: Not listed				
<u>SARA 302/304</u>					
Composition/information	on ingredients	<u>S</u>			
No products were found.					
SARA 304 RQ	: Not applic	able.			
<u>SARA 311/312</u>					
Classification	SKIN IRRIT EYE IRRIT RESPIRAT SKIN SENS CARCINOC SPECIFIC irritation) - 0	XICITY (inhalation) - Cate ATION - Category 2 ATION - Category 2A ORY SENSITIZATION - ( SITIZATION - Category 1 GENICITY - Category 2 TARGET ORGAN TOXIC Category 3 TARGET ORGAN TOXIC	Category 1 ITY (SINGLE EXPO		
Composition/information	on ingredient	<u>8</u>		-	
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# Section 15. Regulatory information

Name	%	Classification
Isocyanic acid, polymethylenepolyphenylene ester		ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A RESPIRATORY SENSITIZATION - Category 1 SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

#### **SARA 313**

	Product name	CAS number	%
Form R - Reporting requirements	Isocyanic acid, polymethylenepolyphenylene ester	9016-87-9	≥75 - ≤90
Supplier notification	Isocyanic acid, polymethylenepolyphenylene ester	9016-87-9	≥75 - ≤90

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

#### **State regulations**

Massachusetts	: None of the components are listed.
New York	: None of the components are listed.
New Jersey	: The following components are listed: METHYLENE DIPHENYL DIISOCYANATE (POLYMERIC)
Pennsylvania	: None of the components are listed.
California Bron 65	

#### California Prop. 65

This product does not require a Safe Harbor warning under California Prop. 65.

#### International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### **Montreal Protocol**

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

#### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

#### **UNECE Aarhus Protocol on POPs and Heavy Metals**

Not listed.

#### Inventory list

<u></u>	
Australia	: All components are listed or exempted.
Canada	: All components are listed or exempted.
China	: All components are listed or exempted.
Eurasian Economic Union	: Russian Federation inventory: Not determined.
Japan	: Japan inventory (CSCL): All components are listed or exempted. Japan inventory (ISHL): All components are listed or exempted.
New Zealand	: All components are listed or exempted.
Philippines	: All components are listed or exempted.
Republic of Korea	: All components are listed or exempted.
Taiwan	: Not determined.

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### Section 15. Regulatory information

Thailand Turkey

- : All components are listed or exempted.
- : Not determined.

United States Viet Nam : All components are active or exempted.

: All com

: All components are listed or exempted.

### Section 16. Other information

#### Hazardous Material Information System (U.S.A.)



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

#### National Fire Protection Association (U.S.A.)



#### Procedure used to derive the classification

Classification				Justification			
ACUTE TOXICITY (inhalatic SKIN IRRITATION - Catego EYE IRRITATION - Catego RESPIRATORY SENSITIZA SKIN SENSITIZATION - Ca CARCINOGENICITY - Cate SPECIFIC TARGET ORGA irritation) - Category 3 SPECIFIC TARGET ORGA	ory 2 -y 2A ATION - Category tegory 1 gory 2 N TOXICITY (SIN	NGLE EXPOSURE) (Resp		Calculation meth Calculation meth Calculation meth Calculation meth Calculation meth Calculation meth Calculation meth	nod nod nod nod nod nod		
History				Guidalation met			
Date of printing	: 11/28/2023	3					
Date of issue/Date of revision	: 10/20/2022	-					
Date of previous issue	: 10/19/2022	2					
Version	: 1.03						
Key to abbreviations	BCF = Bio GHS = Glo IATA = Inte IBC = Inter IMDG = In LogPow = MARPOL = as modifier N/A = Not	gregation Group	ssociation erous Goods /ater partition coe n for the Preventio	fficient on of Pollution Fror			
References	: Not availat	ole.					
Date of issue/Date of revision	: 10/20/2022	Date of previous issue	: 10/19/2022	Version	:1.03 11/:		

### Section 16. Other information

Indicates information that has changed from previously issued version.

#### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.